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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,306	06/20/2005	Michael O'Rourke	084329-000000US	6397
	7590 05/28/200 AND TOWNSEND AN		EXAMINER	
TWO EMBARCADERO CENTER			SCHILLINGER, ANN M	
EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			ART UNIT	PAPER NUMBER
			3774	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/540,306	O'ROURKE ET AL.
Office Action Summary	Examiner	Art Unit
	ANN SCHILLINGER	3774
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPOWHICHEVER IS LONGER, FROM THE MAILING IT Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tiled will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 20. 2a) This action is FINAL . 2b) Th 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-29 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5) Claim(s) is/are allowed. 6) Claim(s) 1-29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examination of the drawing(s) filed on is/are: a) and according to a size and according to the application of the drawing(s) filed on is/are: a) and according to the application of the drawing(s) filed on is/are: a) according to the application of the above claim(s) is/are withdress.	awn from consideration. /or election requirement. ner.	Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat fority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/20/05.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 8-12, 18, 25, and 28 are rejected under 35 U.S.C. 102(e) as being anticipated by Hegde et al. (US Pub. No. 2004/0147803). Hegde et al. discloses the following of the claimed invention: a method of treating a stiffened blood vessel to help it resume normal function, said method comprising at least substantially encasing a stiffened portion of said blood vessel (paragraphs 0067-0068, 0089-0091) with an elastic membrane formed of biocompatible material (paragraphs 0071, 0073) such that said membrane engages said stiffened portion of said blood vessel to thereby reduce the external diameter of said stiffened portion of said blood vessel (paragraph 0069).

Claims 2-4 are disclosed in paragraph 0067.

Hegde et al. discloses the following of claim 5: the method of claim 1 wherein said stiffened portion of said blood vessel is a grafted synthetic portion of said blood vessel (paragraph 0089).

Hegde et al. discloses claims 8-10 and 12 in Figures 2-4, 7, and 10-13; paragraphs 0078-0079.

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Hegde et al. discloses the following of claim 11: the method of claim 8 wherein the opposing end portions of said membrane sheet are secured by suturing (paragraph 0088).

Hegde et al. discloses claim 25 is paragraph 0071.

Hegde et al. discloses claim 28 is paragraphs 0089-0091.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. in view of Chuter (US Pat. No. 5,387,235). Hegde et al. discloses the invention substantially as claimed, however, Hegde et al. does not disclose constructing the graft woven polyester. Chuter teaches a stent with a woven polyester graft in col. 9, lines 12-43 for the purpose of utilizing the material's elasticity. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the graft from woven polyester in order to utilize the material's elasticity.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. in view of Von Oepen (US Pub. No. 2002/0151959). Hegde et al. discloses the invention substantially as claimed, however, Hegde et al. does not disclose dilating the vessel prior to treatment. Von Oepen teaches a stent where the vessel is dilated prior to treatment in paragraphs 0001-0002 for the purpose of preventing the vessel from closing. Therefore, it would have been

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obvious to one of ordinary skill in the art at the time the invention was made to dilate the vessel prior to treatment in order to prevent the vessel from closing.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. in view of Spaulding (US Pat. No. 5,304,200). Hegde et al. discloses the invention substantially as claimed, however, Hegde et al. does not disclose welding the ends of the prosthesis. Spaulding teaches a stent with welded ends in col. 5, lines 13-49 for the purpose of securing the prosthesis in its desired shape. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to weld the ends of the prosthesis in order to secure the prosthesis in its desired shape.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. in view of Picha (US Pat. No. 5,057,118). Hegde et al. discloses the invention substantially as claimed, however, Hegde et al. does not disclose connecting the ends of the prosthesis with interlocking structures. Picha teaches an occlusion device with interlocking ends in col. 3, lines 1-39 for the purpose of securing the prosthesis in its desired shape. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to connect the ends of the prosthesis with interlocking structures in order to secure the prosthesis in its desired shape.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. in view of Jones (US Pat. No. 4,202,349). Hegde et al. discloses the invention substantially as claimed, however, Hegde et al. does not disclose markings on the prosthesis. Jones teaches a stent with markings in col. 2, line 52 through col. 3, line 16 for the purpose of helping the physician to properly locate the prosthesis. Therefore, it would have been obvious to one of

ordinary skill in the art at the time the invention was made to place markings on the prosthesis in order to help the physician to properly locate the prosthesis.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. in view of Dusbabek et al. (US Pub. No. 2001/0007082). Hegde et al. discloses the invention substantially as claimed, however, Hegde et al. does not disclose how the sheet membrane is formed. Dusbabek et al. teaches a stent where a cylinder is cut to form different structures to be used with the prosthesis in paragraphs 0074-0076 for the purpose of allowing the user to create the desired shape for the prosthesis. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a cut cylinder to form different structures to be used with the prosthesis in order to allow the user to create the desired shape for the prosthesis.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. in view of Fontaine (US Pat. No. 5,314,472). Hegde et al. discloses the invention substantially as claimed, however, Hegde et al. does not disclose the prosthesis having a spiral shape. Fontaine teaches a stent with a spiral shape in col. 2, line 50 through col. 3, line 7 for the purpose of allowing the prosthesis to properly fit to its desired location. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the prosthesis with a spiral shape in order to allow the prosthesis to properly fit to its desired location.

In addition, it would have been an obvious matter of design choice to give the prosthesis a spiral shape, since such a modification would have involved a mere change in the shape of the

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component. A change in shape is generally recognized as being within the level of ordinary skill in the art.

Claims 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. Hegde et al. discloses the invention substantially as claimed except for the specific properties of size, and stiffness claimed by the Applicant. It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the prosthesis with the claimed physical characteristics, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hegde et al. in view of Silverstrini et al. (US Pat. No. 4,834,755). Hegde et al. discloses the invention substantially as claimed, however, Hegde et al. does not disclose the using elastic polyurethane in the prosthesis. Silverstrini et al. teaches a biological prosthesis using elastic polyurethane in columns 5 and 6 for the purpose of utilizing the material's biocompatibility. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use elastic polyurethane in the prosthesis in order to utilize the material's biocompatibility.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANN SCHILLINGER whose telephone number is (571)272-6652. The examiner can normally be reached on Mon. thru Fri. 9 a.m. to 4 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ann Schillinger/

Examiner, Art Unit 3774

/Corrine M McDermott/

Supervisory Patent Examiner, Art Unit 3738